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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/875,184	06/07/2001	Tadaoki Takii	010493	7678
38834	7590	02/11/2004	EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 WASHINGTON, DC 20036			GORDON, BRIAN R	
			ART UNIT	PAPER NUMBER
			1743	

DATE MAILED: 02/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/875,184	TAKII ET AL.	
<b>Examiner</b>	<b>Art Unit</b>		
Brian R. Gordon	1743		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 14 November 2003.

2a)  This action is **FINAL**.                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-4 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-4 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)  The proposed drawing correction filed on \_\_\_\_\_ is: a)  approved b)  disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12)  The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)  All b)  Some \* c)  None of:

1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a)  The translation of the foreign language provisional application has been received.

15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

1)  Notice of References Cited (PTO-892) 4)  Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_ .  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 5)  Notice of Informal Patent Application (PTO-152)  
3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_. 6)  Other: \_\_\_\_\_

**DETAILED ACTION**

***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

***Response to Arguments***

2. In light of applicant's amendment to claims 1 and 3, filed November 14, 2003, the 102(e) rejections of claim 1 and 3 as being anticipated by Tajima and Shultz, respectively, are hereby withdrawn.

3. Applicant's arguments filed November 14, 2003 have been fully considered but they are not persuasive. Applicant asserts that the diameter of the pipetting probe of Tyberg is too wide relative to the diameter of the vessel. This argument is not commensurate in scope with that of the claims. The vessel and its dimensions are not positively claimed as limitations of the system and therefore are not considered in the patentability of the claimed invention. As presently drafted, the claim merely expresses the intended use of the device with a vessel. Furthermore, the examiner asserts that the diameter of the probe is not too wide to fit in the vessel disclosed in Figures 3B and 3C of the Tyberg reference. The probe can be clearly seen in the Figures as being inserted into a vessel and contacting the lowermost portion of the vessel.

As to the arguments directed to the 102(b) rejections for claim 2 as being anticipated by Yu and Wilks, the examiner respectfully disagrees. Although claims are interpreted in light of the specification, limitations from the specification are not read into the claims. *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed.cir. 1993). The

claims are interpreted in light of the specification in the sense of where the claim in it's broadest scope includes not only the specific structure given in the specification, but it also includes any structure that is equivalent. An equivalent structure is one that primarily or substantially functions or is capable of functioning as the claimed structure. Claim 1 recites "a magnet moving means for supporting the magnet so as to be movable toward and away from the vessel, the magnet being capable of holding magnetic particles in a given position in the vessel by being moved toward the vessel by the magnet moving means." The specification and drawings of Yu and Wilks clearly disclose elevator mechanisms designed to function and provide the same movement of the "moving means" as broadly claimed. The reference clearly expresses an equivalent of the moving means as claimed by applicant. If applicant does not consider the structure of the references to be equivalent to of the claimed subject matter, applicant is hereby invited to express what is considered to be an equivalent to the claimed subject matter and give a 112 6<sup>th</sup> paragraph analysis of why the structure of the cited references is not considered equivalent.

Applicant also states that:

"an example in Figures 4A and 4C, wherein there is indeed a magnetic moving means (4a, 4b, 4c, 4d, 4e, 4f, 4g, 4h, 4i, 4j) for supporting the magnet 8 so as to be moveable toward and away from the vessel 6. More specifically, in Figure 4A, the magnetic moving mean: for supporting the magnet 8 so as to be moveable away from the vessel 6, as the magnet 8 is separately below microplate assembly 6. In Figure 4C, magnetic

moving means for supporting the magnet 8 so as to be moveable toward the vessel 8, as the magnet 8 is on the same level as microplate assembly 6."

It appears as if applicant is attempting to limit the claim to the structure of the moving means as elements (4a, 4b, 4c, 4d, 4e, 4f, 4g, 4h, 4i, 4j). However after perusing the specification, the examiner fails to find specific language where "moving means" is defined as including all of the elements as suggested by applicant's arguments. The examiner does recognize that "the magnetic holding means 4" is defined on page 12 as including elements 4a and 4e (two elements). The magnetic holding means is interpreted as a means for holding magnets and is not considered as "a magnet moving means". As such it is unclear where support is provided for the moving means being limited to the elements as asserted by applicant.

As to the 102(e) rejection of claim 3 as being anticipated by Shultz, the examiner asserts that Shultz discloses the claimed invention except for the buffer tank being located between the suction pump and the branch manifold. It would have been obvious to one of ordinary skill in the art at the time the invention was made to rearrange the buffer tank 50 of Shultz to a position between the pump and the manifold, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70. New 103 rejections are given below.

As to applicant's remarks which suggest that the examiner's 103 rejection is improper for lacking motivation in the references, or in the knowledge generally available to one of ordinary skill in the art to modify the teachings or the references or to combine the teachings to derive a reasonable expectation of success, the examiner

asserts that all of the requirements for combining the references are in the 103 rejection are met. The references Shultz and Tyberg are analogous art disclosing devices for transferring aspiration and dispensing samples to containers for testing or other laboratory activities. Yu discloses a microwell plate, which is a conventional laboratory apparatus, in which samples are dispensed to and aspirated from for various activities such as conducting reactions or collecting samples. The examiner asserts the combination of references is proper. Hence, for the reasons given above and in the previous 103 rejection of the prior office action the rejection is hereby maintained.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Tyberg et al. Us 6,270,726.

Tyberg discloses a pipetting station having a bottom sensing device is provided in conjunction with one of any known liquid level sensing devices. The bottom sensing device includes a pipetting probe **spring** mounted to a pipetting arm of the pipetting

station. The bottom sensing device also includes a sensor for determining when a pipetting tip of the pipetting probe is in contact with a bottom of a tube. The bottom sensing device permits the pipetting probe to measure an exact volume of fluid in the tube by allowing the pipetting tip (suction nozzle) to be lowered to the bottom of the tube beyond the sensed fluid level.

The pipetting station 24 (moving means) includes the pipetting arm 32 (support means) that moves in the direction of arrow 42, and a pipetting probe 34 **spring** mounted to the pipetting arm 32 of the pipetting station 24. The pipetting probe 34 includes a pipetting tip 36 having a capacitive level sensor as described with reference to U.S. Pat. No. 5,648,727. The capacitive sensor senses a level of the fluid and determines that level in relation to a known "home" position. The tube 20 is placed in a holding device (see FIG. 4) so that a bottom of the tube 20 is at the reference line "X" which is used as a reference point for discussion purposes only.

6. Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Yu US 5,779,907.

Yu discloses an apparatus for immunoassay using a 96-well microplate includes a mechanism for supporting the microplate in a relatively fixed position, a magnetic microplate assembly containing multiple cylindrical magnets positioned in 4X6 arrays for insertion from the bottom of the microplate in the spaces between the wells of the microplate, and a device for moving the magnet microplate assembly relative to the microplate thereby to permit selective separation of magnetic components within the microplate wells. The magnets, preferably cylindrical in configuration, are placed

between groups of four wells in the microplate. The magnetic microplate assembly is reusable. The magnets do not come into contact with any of the fluids within the wells of the microplate.

A reusable magnet microplate assembly 20 is shown in FIG. 1 positioned below the microplate 10. The plate assembly 20 includes a support plate 22 on which is mounted a plurality of individual **magnets 24**. In the preferred embodiment of this invention, there is one magnet 24 for each group 16 of four wells. Thus, for a ninety-six well microplate, the magnet microplate assembly will include twenty-four magnets 24. While a ninety-six well microplate is illustrated, this invention is equally applicable to standard 6, 12, 24, 48 tissue culture plates.

A microplate 10 is secured to a shaker table 50, and the magnet microplate assembly 20 is attached to an elevator mechanism 55 (magnet moving means), which comprises means for moving the magnet microplate assembly relative to the microplate thereby to permit selective separation of magnetic components within the wells of the microplate. **A conventional liquid insertion and removal assembly 60** (suction nozzle) is attached to an elevator 65. From time to time during the process, the assembly 60 is lowered to place pairs of hollow needles 68 into individual wells.

A principal advantage of the invention is that a single, disposable microplate is used throughout an immunomagnetic separation process without unnecessary handling by an operator. Sample dilution, incubation, soaking, orbital shaking, magnetic separation, bead wash, rinse and reagent **dispensing in the magnetic separator may be accomplished automatically under computer program control.**

7. Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Wilks US 5,578,495.

Wilks discloses a solids preparation and extraction device. This device can be independently mounted in an appropriate housing in the combination subsequently described and employed to process only solid or semi-solids materials delivered on station thereto via a feed tray, magazine or carrousel. Alternatively, this device can be mounted in an appropriate housing with the additional sub-components (B) and (C), supra, to provide an instrument suitable for handling, on the same feed tray, magazine, or carrousel, vials, or bottles, which contain both (i) fluid samples and (ii) solid or semi-solids samples from which organic fluid or solids specimens can be extracted.

The instrument employed to extract and recover the organic liquid or solids components from a given amount of a solid or semi-solids material, and inject said recovered components to an analytical unit, include a solids preparation and extraction sub-assembly 200, a syringe 10 (suction nozzle), and a carrousel feed tray 50. All are contained within a suitable housing. The feed tray 50 transports in programmed sequence the bottles 250, containing weighed amounts of the solids or semi-solids samples, to a position for operation thereon by the solids preparation and extraction assembly 200. The carrousel feed tray 50 provides seating locations for the bottles, or vials, in any programmed order as desired for analysis. The circumferential edges of the upper sample tray holder 52 and tray base 54 of the carrousel feed tray 50 within which the bottles or vials are placed are slotted, or cut away providing slots 5 which permit

ready access for lifting the vials for processing, and extraction of components for analysis.

The solids preparation and extraction sub-assembly 200, as shown by any of FIGS. 1-4, includes generally an electrical heater, or oven 210, and an elevator assembly 220 inclusive of an upper carriage section 222<sub>2</sub> and a lower carriage section 222<sub>1</sub>. It further includes an elevator motor 221 for raising and lowering the elevator assembly 220 (magnet moving means), and a stir motor 223 (magnet) for inductive rotation of the magnetic stir bar 258 contained within vial 250.

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

11. Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schultz et al. (alone based on rearrangement case law recited above) or in the alternative in view of Ade et al. US 5,853,665.

Schultz et al. discloses an automated assaying system is disclosed having a multiplicity of lumens oriented and controllable in clusters. The lumens are portrayed in a matrix, wherein each row of the matrix consists of one such cluster that is individually controllable for aspiration and dispensation purposes. Also provided is a unique wash system capable of flushing the entirety of the system. A method is also depicted for accomplishing this unique assaying.

The device a hydraulic solution source 50 (buffer tank) which may contain any acceptable hydraulic solution, including water, sterile saline, solvent, or some other washing solution, a pump 12 (liquid conveying means) is thereafter connected thereto. Pump 12 is preferably of the peristaltic type, however, any fluid-type pump may be employed. From pump 12, a conduit 14 consisting of branch tubing coupled to, in this case, as depicted, two valves 16. The distribution valves 16 channel the wash fluid into a plurality of controllable cells 32. For example, as depicted, the distribution valves 16

provide output lines as arterial tubing 18 in equal numbers of six which spread to 12 of the housings 32 (manifold) via a valve 30 on each housing 32.

Syringes 52 (suction pump), of course, contain plungers 54 on plunger shafts 82. As there are eight syringes depicted in FIGS. 3 and 4, with four being to the front of the unit and four being to the rear, a plunger-pushing base 62 couples all of the syringe plunger shafts 82 together in any given unit. A motor 72, also coupled to a computer system, may specifically meter volumes via the syringes 52, either positively or negatively. That is, the plungers 54 may be pushed up to force fluid out of the system, or the plungers 54 may be drawn down to suction fluid into the system, both through probes 26 (suction nozzles).

As can be seen in FIGS. 4 through 6, the top spider ports 64 and the bottom spider ports 66 are slightly offset. This slight offset allows for the 180 degree rotation of an internal shaft 80 which acts as a valve key sleeve within an outer sleeve 78. That valve key sleeve 80, as depicted in FIGS. 5 and 6, contains, importantly, two grooves 74. While in an open position, those grooves orient with the spider ports 56. However, when those grooves 74 are rotated 180 degrees, they no longer align with the spider ports 56, but instead a solid portion of the key sleeve 80 orients with those ports, closing them off from the wash system downstream. Therefore, when in a closed position, the system is controllable only by syringes 52 via motors 72, but not by pump 12. Importantly, each motor 72 may be individually controlled. Therefore, as depicted in FIG. 1, each of the twelve syringe housings 32, containing eight syringes and output ports, are individually controllable via a motor 72.

Thereafter, the lumens 34 extending from tips 60 are arranged as ganged clusters within tubing management housing 20. Tubing management housing 20 is preferably a flexible tract housing. Oriented with tubing management housing 20 is a swivel 48. Swivel 48 allows the upper portion of the tubing management housing 20 to slightly disorient or skew itself without binding of the lumens contained therein. That is, as tubing management housing 20 is moved about, swivel 48 allows that portion of tubing management housing 20 above swivel 48 to swivel freely so as not to foul. Tubing management housing 20 is also coupled to a three-dimensional robotic arm system (suction nozzle moving means), consisting of a vertical motion shaft 36, lateral motion couple 38 and longitudinal motion sleeve 40. The vertical motion shaft 36 is coupled at an upper portion to the management tubing 20, slightly below the swivel 48, and then at a lower portion to a U-shaped bracket 46 (support means).

Shultz discloses the employment of a buffer tank (50) that supplies acceptable hydraulic solution, including water, sterile saline, solvent, or some other washing solution, but does not disclose the buffer tank being located between the suction pump and the branch manifold.

Ade et al. discloses an apparatus for transferring fluid samples such as blood from containers. The apparatus includes an aspiration head that is connected to a vacuum pump. The system also comprises a diluent supply (buffer tank) located between the pump and the point of aspiration. After aspiration of a sample is complete, diluent solution (i.e. backwash solution) is selectively applied to the aspiration line through a solenoid-controlled valve LV2 located in a diluent supply line 40. The flushing

of diluent solution cleanses and prepares the aspiration line and needle for aspiration of subsequent blood samples.

As previously stated Shultz does disclose a buffer tank however, it would have been obvious to one of ordinary skill in the art to recognize that the location of the tank may be located at a point between the pump and the manifold as taught by Ade et al. to flush and wash the plumbing system between aspiration cycles.

12. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shultz et al. in view of Ade et al. as applied to claim 3 above, and further in view of Tyberg and Yu.

Shultz does not teach a device that comprises nozzle moving including urging means for urging the suction nozzles toward the vessel, magnet, and a magnet moving means.

Tyberg discloses a pipetting station 24 (moving means) includes the pipetting arm 32 (support means) that moves in the direction of arrow 42, and a pipetting probe 34 **spring** (urging means) mounted to the pipetting arm 32 of the pipetting station 24. The pipetting probe 34 includes a pipetting tip 36 having a capacitive level sensor as described with reference to U.S. Pat. No. 5,648,727. The capacitive sensor senses a level of the fluid and determines that level in relation to a known "home" position. The tube 20 is placed in a holding device (see FIG. 4) so that a bottom of the tube 20 is at the reference line "X" which is used as a reference point for discussion purposes only.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Shultz et al. by employing the sensing system of

Tyberg in order to prevent the probes 26 of the device of Schultz from breaking in the event that the robotic system moves the probes down to far to contact the basin 28.

Yu discloses microplate 10 is secured to a shaker table 50, and the magnet microplate assembly 20 is attached to an elevator mechanism 55 (magnet moving means), which comprises means for moving the magnet microplate assembly relative to the microplate thereby to permit selective separation of magnetic components within the wells of the microplate. **A conventional liquid insertion and removal assembly 60** (suction nozzle) is attached to an elevator 65. From time to time during the process, the assembly 60 is lowered to place pairs of hollow needles 68 into individual wells.

A principal advantage of the invention is that a single, disposable microplate is used throughout an immunomagnetic separation process without unnecessary handling by an operator. Sample dilution, incubation, soaking, orbital shaking, magnetic separation, bead wash, rinse and reagent dispensing **in the magnetic separator may be accomplished automatically under computer program control.**

It would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the modified device of Schultz et al. by incorporating the magnetic system of Yu to allow for stirring of the assay materials deposited in the wells of the basin.

13. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schultz et al. as applied to claim 3 above, and further in view of Tyberg and Yu.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Schultz et al. by employing the sensing system of Tyberg in order to prevent the probes 26 of the device of Schultz from breaking in the event that the robotic system moves the probes down to far to contact the basin 28.

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the process, the assembly 60 is lowered to place pairs of hollow needles 68 into individual wells.

A principal advantage of the invention is that a single, disposable microplate is used throughout an immunomagnetic separation process without unnecessary handling by an operator. Sample dilution, incubation, soaking, orbital shaking, magnetic separation, bead wash, rinse and reagent **dispensing in the magnetic separator may be accomplished automatically under computer program control.**

It would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the modified device of Schultz et al. by incorporating the magnetic system of Yu to allow for stirring of the assay materials deposited in the wells of the basin.

#### ***Conclusion***

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

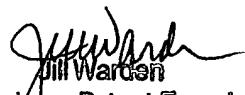
the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Gordon whose telephone number is 571-272-1258. The examiner can normally be reached on M-F, with 2nd and 4th F off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

brg  
February 3, 2004

  
Jill Warden  
Supervisory Patent Examiner  
Technology Center 1700